

The University of Massachusetts Amherst (UMass Amherst) is the flagship campus of the University of Massachusetts system, sits on nearly 1,450 acres in the scenic Pioneer Valley, within 2 hours driving distance to Boston and 3 hours to New York City. The campus is one of the major research universities in America, and consistently ranked among the top public research universities in the nation.

The Department of Biostatistics and Epidemiology in the School of Public Health and Health Sciences of UMass Amherst is looking for two postdoctoral fellows ideally with a strong quantitative background and research experience in computational genomics. The postdoctoral fellow will join the research lab and colleagues in the Department of Biostatistics and Epidemiology with expertise in biostatistics, bioinformatics, genomics, computer science, life sciences, and health sciences, and will gain multi-disciplinary research experience and career development opportunities.

The postdoctoral fellows will focus on high-dimensional and complex data analysis for elucidating genome regulatory mechanisms. The postdoctoral fellows will assist with completion of a multi-year, NIH-funded grant for developing and applying statistical and machine learning methods for the analysis of RNA structure, protein-RNA interaction, and post-transcriptional regulation. Other projects include but are not limited to modeling 3D genome organization and single cell dynamics in cells, diseases and health, and collaborations on large-scale first-hand dataset analysis.

Responsibilities

- Develop, implement, evaluate, and compare data analysis methods and algorithms
- Interpret research results and generate testable hypotheses from data
- Collaborate with bench scientists to test hypotheses and validate research results
- Present research results and write manuscripts and progress reports

Qualifications

- Ph.D. degree in a quantitative field
- Strong publication
- Programming skills in Python, R, C/C++ or Matlab
- Research experience in computational genomics is a plus

The targeted start date for this position is 2/1/2020, although earlier or later start dates could be arranged.

Please apply at:

<http://careers.umass.edu/amherst/en-us/job/504076/post-doc-in-biostatistics-and-epidemiology>